

37. (New) The method of claim 36, wherein the user input includes information comprising an identification of the selected portion of the spherical image.

38. (New) The method of claim 36, further including the step of displaying at least a portion of the perspective-corrected planar image portion on a display.

39. (New) The method of claim 36, further including the step of performing at least one of rotating, tilting, and zooming the perspective-corrected planar image portion in real time in response to the user input.

40. (New) The method of claim 36, further including the step of changing a location of the selected portion within the spherical image in real time in response to the user input.

41. (New) The method of claim 36, wherein the selected portion includes a plurality of non-adjacent sub-portions.

42. (New) The method of claim 36, wherein the step of transforming is performed according to at least one calibration coefficient, the at least one calibration coefficient being controlled by the user input.

43. (New) The method of claim 36, wherein the spherical image is a moving picture video image comprising a plurality of still-image spherical image frames, the method further including the step of outputting the perspective-corrected planar image at a real-time video rate compatible with commercial video standards.

44. (New) The method of claim 36, further including the step of rotating the perspective-corrected planar image portion such that the perspective-corrected planar image portion is vertically aligned with a gravity vector.

45. (New) A method for creating a spherical image comprising the steps of:

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capturing a first approximately hemispherical image via a first camera including a first approximately hemispherical lens directed in a first direction;

waiting for a period of time after capturing the first approximately hemispherical image;

capturing a second approximately hemispherical image after the period of time is complete via a second camera including a second approximately hemispherical lens directed in a second direction approximately opposite to the first direction; and

combining the first approximately hemispherical image with the second approximately hemispherical image to form the spherical image.

46. (New) The method of claim 45, wherein the second camera is the first camera.

47. (New) The method of claim 45, wherein the first approximately hemispherical image and the second approximately hemispherical image are captured on a same frame of film.

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49. (New) The method according to claim 45, wherein the first approximately hemispherical image is a greater than 180° field-of-view image and the second image is a greater than 180° field-of-view image.

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50. (New) The method according to claim 45, wherein the first camera includes film configured to be exposed with the first approximately hemispherical image, the method further comprising the step of converting the first approximately hemispherical image exposed on the film into an electronic format.

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51. (New) Apparatus for creating a spherical image, the apparatus comprising:  
a first approximately hemispherical lens directed in a first direction for receiving a first approximately hemispherical image;

a second approximately hemispherical lens directed in a second direction approximately opposite to the first direction for receiving a second approximately hemispherical image, the

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New multiple film

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apparatus being configured to capture the second approximately hemispherical image a period of time after capturing the first approximately hemispherical image; and

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a computer for combining the first approximately hemispherical image with the second approximately hemispherical image to form the spherical image.

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~~52.~~ (New) The apparatus of claim <sup>50</sup>~~51~~, further including a camera coupled to the computer for capturing the first and second approximately hemispherical images, the first approximately hemispherical lens being optically connected to the camera via first reflective optics and the second approximately hemispherical lens being optically connected to the camera via second reflective optics.

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~~53.~~ (New) The apparatus according to claim <sup>51</sup>~~52~~, wherein the camera comprises a still camera.

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~~54.~~ (New) The apparatus according to claim <sup>51</sup>~~52~~, wherein the camera comprises a video camera.

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~~55.~~ (New) The apparatus according to claim <sup>51</sup>~~52~~, wherein the camera comprises a motion picture camera.

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~~56.~~ (New) The apparatus according to claim <sup>51</sup>~~52~~, wherein the camera comprises a linear scanning CID camera array.

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~~57.~~ (New) The apparatus according to claim <sup>51</sup>~~52~~, wherein the camera comprises a linear scanning CCD camera array.

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~~58.~~ (New) The apparatus according to claim <sup>51</sup>~~52~~, wherein the camera comprises a linear scanning CMOS APS camera array.

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~~59.~~ (New) The apparatus according to claim <sup>50</sup>~~51~~, further including a first camera for capturing the first approximately hemispherical and a second camera for capturing the second

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